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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/725,728	11/29/2000	William P. Acker	MTIP001US	9617

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12
EXAMINER

CREPEAU, JONATHAN

ART UNIT

PAPER NUMBER

1746

DATE MAILED: 08/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/725,728

Applicant(s)

ACKER ET AL.

Examiner

Jonathan S. Crepeau

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 June 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-19, 21-39, 41 and 42 is/are allowed.
- 6) ☒ Claim(s) 20, 40, 43 and 44 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Amendment

1. This Office action addresses claims 1-42 and newly added claims 43 and 44 (claims 53 and 54 were renumbered to 43 and 44, pursuant to 37 CFR §1.126). Claims 1-19, 21-39, 41, and 42 remain allowed. However, claims 20, 40, 43 and 44 remain rejected for substantially the reasons of record. Accordingly, this action is made final.

Claim Rejections - 35 USC § 103

2. Claims 20, 40, 43, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edlund et al (U.S. Patent 6,383,670) in view of McKinney et al (U.S. Patent 5,126,729).

Regarding claims 20 and 40, in Figure 3 and in column 5, lines 42-46, Edlund et al. teach a fuel cell system (10) comprising a controller (28) for receiving an input of a fluid level measurement of fuel tanks (78, 80). The controller subsequently directs refill fluid to be automatically added to the tanks. In column 3, lines 21-34, the reference teaches that the communication pathway may be a telecommunications link (e.g., radio frequency, wireless signals). The reference further teaches that the fluid may be added from an "external" source. Regarding claims 20, 40, 43, and 44, in column 13, line 30, the reference teaches that the current from the stack (14) may be used to power the operation of the system (10). Regarding claims 43 and 44, the telecommunications link is inherently part of an electrically-powered "device."

Edlund et al. do not expressly teach that the refill fluid is automatically ordered from a supplier of source fuel replacements, as recited in claims 20 and 40.

The patent of McKinney et al. is directed to an automated chemical storage and chemical feed system. In column 2, line 16 et seq., the reference teaches that a level sensor measures the level of a chemical in a tank at a use station. The information is delivered over a telemetry system to a remote supply station, whereby a person at the supply station automatically orders a replenishing supply to be delivered to the use station on the basis of the level sensor information.

Therefore, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because the disclosure of McKinney et al. would motivate the artisan to have the refill fluid of Edlund et al. automatically ordered from a remote supplier of source fuel replacements. It is noted that Edlund et al. further teach at column 5, line 46 that "[i]f no additional fluid is available and the level drops below determined minimum levels, then the controller may take the appropriate programmed response, such as executing the control system's shutdown subroutine and alerting the user of the problem, or fault, via user interface 58." Thus, Edlund et al. are concerned with maintaining an adequate amount of fuel in the system. Regarding the disclosure of McKinney et al., the reference teaches in column 3, line 16, that "[i]t is therefore an object of the invention to provide a chemical storage and chemical feed system that monitors the chemical supply station from a remote supply station to enable automatic ordering of a replenishment of a supply of chemical, thereby eliminating human error in the ordering process, and also eliminating the possibility of running the process at the use station without chemicals." Thus, McKinney et al. are also concerned with ensuring sufficient

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amounts of chemicals. Therefore, the artisan would be motivated to have the refill fluid of Edlund et al. automatically ordered from a remote supplier of source fuel replacements, as disclosed by McKinney et al. Accordingly, the subject matter of claims 20 and 40 would be rendered obvious to the skilled artisan.

Response to Arguments

3. Applicant's arguments filed June 13, 2003 have been fully considered but they are not persuasive. Applicants assert that Edlund does not disclose that the fuel stack being processed powers itself or any type of telecommunications link. However, as noted above, the reference does in fact disclose these features. In column 13, line 30, the reference teaches that "[a]ssembly 114 may optionally be actuated in the pressurize subroutine to send a hydrogen stream to stack 14 so that stack 14 may produce current to power the operation of system 10." Further, in column 12, line 4, the reference teaches that "[s]tandby state 144 may also be thought of as an idle state because the fuel processing system is primed to produce hydrogen and/or electric current, but none is required or being generated in more than a nominal amount, such as would be required to operate the fuel processing system." Both of these disclosures clearly indicate that the fuel cell may power all components contained in the system 10. Thus, since a device having a telecommunications link is part of the system, this device would be powered by the fuel cell. Accordingly, the instant claims are still not considered to be distinguished over the references.

Allowable Subject Matter

4. Claims 1-19, 21-39, 41, and 42 are allowed.
5. The following is a statement of reasons for the indication of allowable subject matter:

The reasons for allowance of independent claims 1, 13, 21, and 33 were given in the Office action May 15, 2002 and remain applicable.

Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (703) 305-0051. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

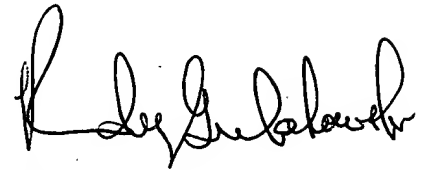
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached at (703) 308-4333. The phone number for the organization where this application or proceeding is assigned is (703) 305-5900. Additionally, documents may be faxed to (703) 872-9310 (for non-final communications) or (703) 872-9311 (for after-final communications).

Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

JSC

August 12, 2003



RANDY GULAKOWSKI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700